HP Z Virtual Workstation

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Workstations

30 yılı aşkın tecrübe ve HP mühendisleri tarafından
en kısa sürede çözüm vaadedilen en kaliteli ürünler.

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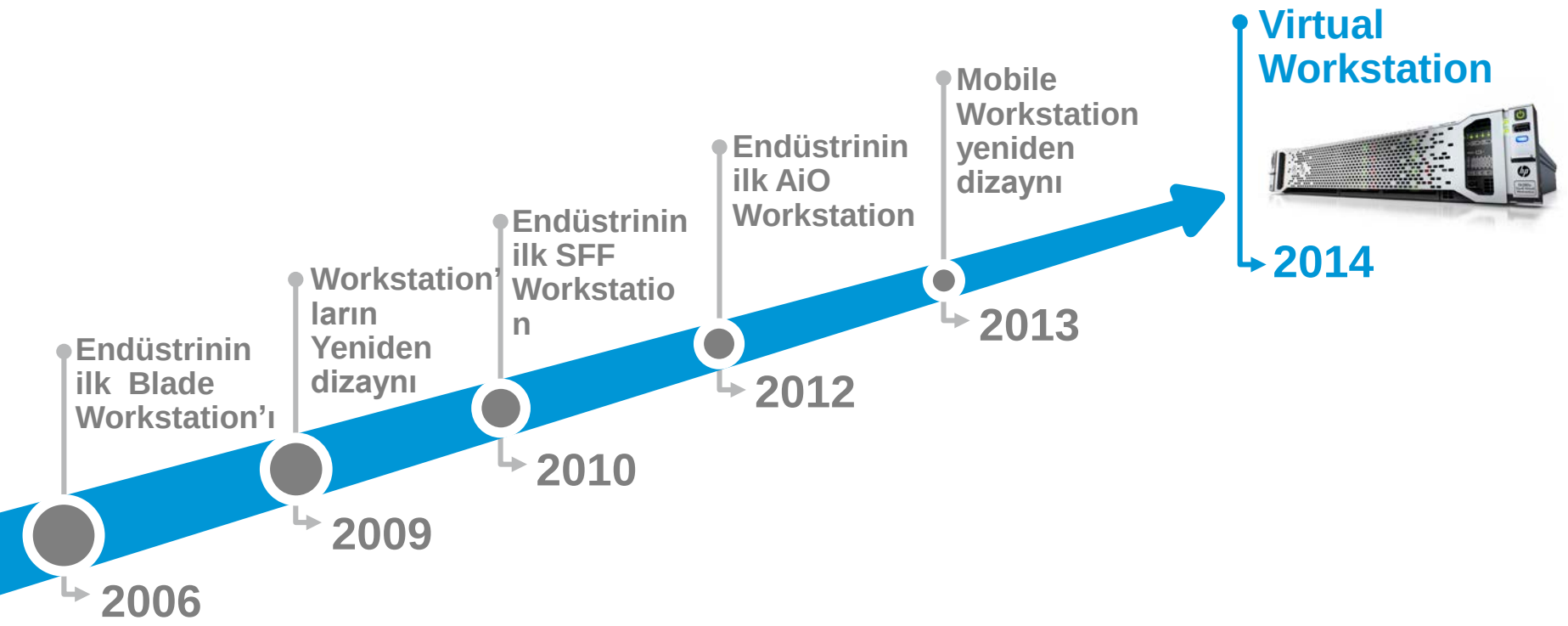
HP Workstation Kilometretaşları



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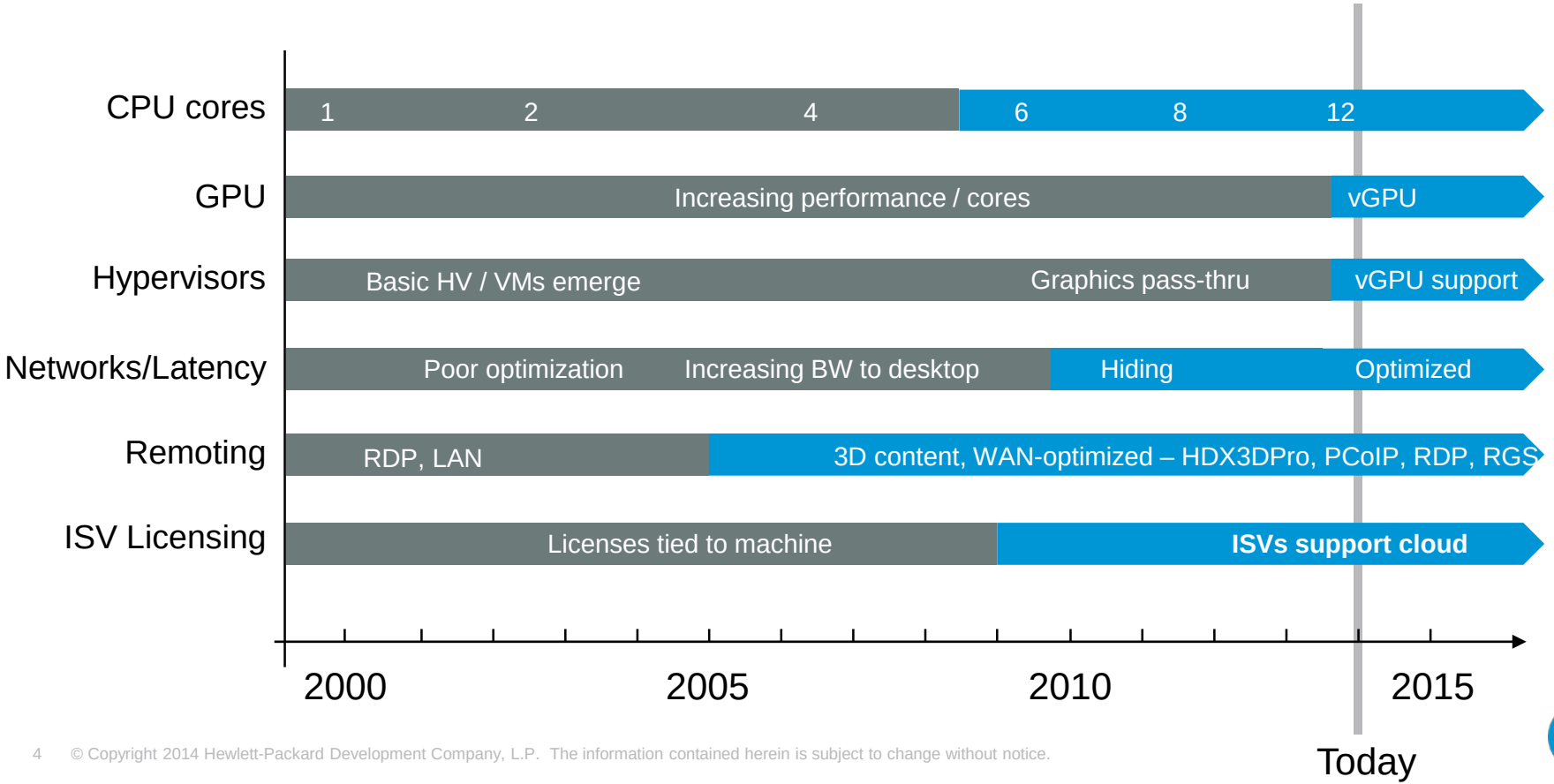
Sanal iş istasyonu çözüm trendleri



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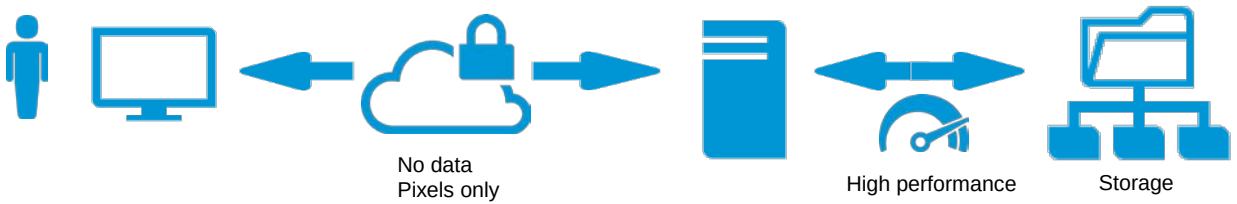
Neden Masaüstü Sanallaştırma?

Sıkıntılar

- Hassas verilerin koruması
- Performans ve BigData problemleri
- Lokasyon bağımlılığı
- Dağıtık masaüstü sistemlerin yönetim zorlukları
- Eski donanımların yenileme süreçleri
- Verinin merkezileştirilememesi
- Yüksek enerji sarfiyatı
- Donanımsal problemlerde iş kaybı

Faydalar

- Güvenli - Yedekli
- Gerektiği anda performans ilavesi
- Lokasyon bağımsız
- Yönetimsel kolaylıklar
- Gerektiği anda donanım arttırımı
- Erişimsel bağımlılıklardan kurtulma
- Yüksek enerji tasarrufu
- İş sürekliliği



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The HP Z Virtual Workstation

Neredeyse durdurulamaz

Hassas verilerin güvenliğini arttırın

Erişim protokolü bazında güvenlik sağlayın. Zamanlı yedekleme ile veri koruma

Esnek üretici desteği

Üretici'den bağımsız sanallaştırma teknolojileri ile tam uyumlu

Yönetimsel kolaylıklar

Tüm donanımı merkezi olarak yönetin

Güçlü grafik, yüksek performans

HP Remote Graphics Software ve HP Velocity 2.1 sayesinde grafiklerde çok farklı netlik ve detay

Görüntü ve Grafikte devrim

İnanılmaz 3D ve animasyon performansı ile istenilen gücü yakalayabilirsiniz

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Sanal workstation kullanım alanları

Remote workstation

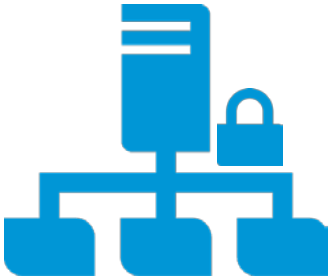
Eğer kişiye özel ve erişim problemi olmayan, veri güvenliği tam, lokasyon bağımsız çözüm gerekiyorsa

Pass through GPU (pGPU)

Ciddi grafik performansı gerekiyorsa, ve GPU performansın dan ödün veremiyorsanız

Virtualized GPU (vGPU)

GPU kaynaklarını ortak bir havuzda toplayarak tüm altyapıda kullanmak istiyorsanız



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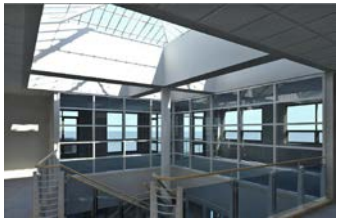
Virtual workstation müşterileri

Müşterilerimizin iş akışlarını, yaşadıkları zorlukları ve yarın için planlarını anlamak

Product Development

PLM

AEC

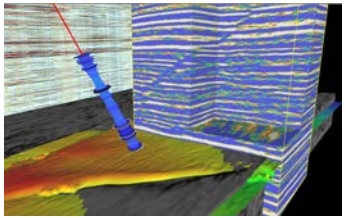


Media & Entertainment

Government

Education

O&G



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HP DL380z Gen8 Virtual Workstation

Platform Overview

Güvenilir Endüstri Lideri

- 30-yıllık workstation geçmişi
- Uzun soluklu ISV birlikteliği
- Workstation-odaklı satış gücü
- Benzersiz portföy

Tüm ihtiyaçlarınıza Virtual Workstation

- 2U rack system ile 8 Power Workstation kullanıcısı
- Endüstri standardı hypervisorler desteği
- HP Velocity 2.1 ve HP RGS
- Tüm PC, ThinClient ve Tabletlerle uyumlu
- ISV Sertifikasyonu

Yüksek-performans grafik

- NVIDIA GRID K2
- Quadro K4000/K5000/K6000

Heryerden erişim

- Komple çözüm mimari
- Tüm yapıyı ve uygulamaları tek lokasyondan yönetim

Kolay yönetilebilir sistemler

- HP iLo Management seçeneği
- HP Insight Control ve HPP Insight Online
- HP Smart Update

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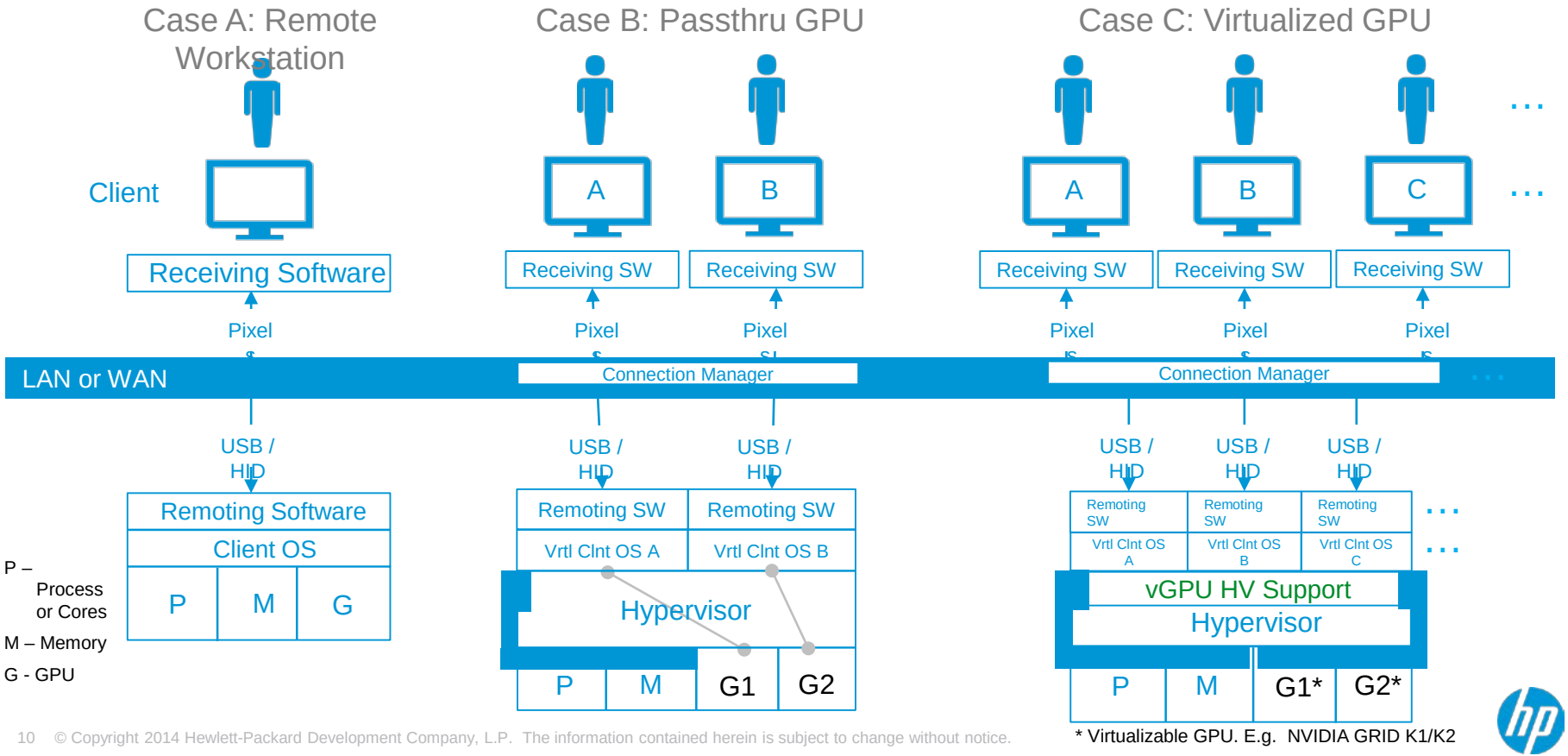
Use cases: Remote Workstation, pGPU, and vGPU



* Virtualizable GPU. E.g. NVIDIA GRID K1/K2

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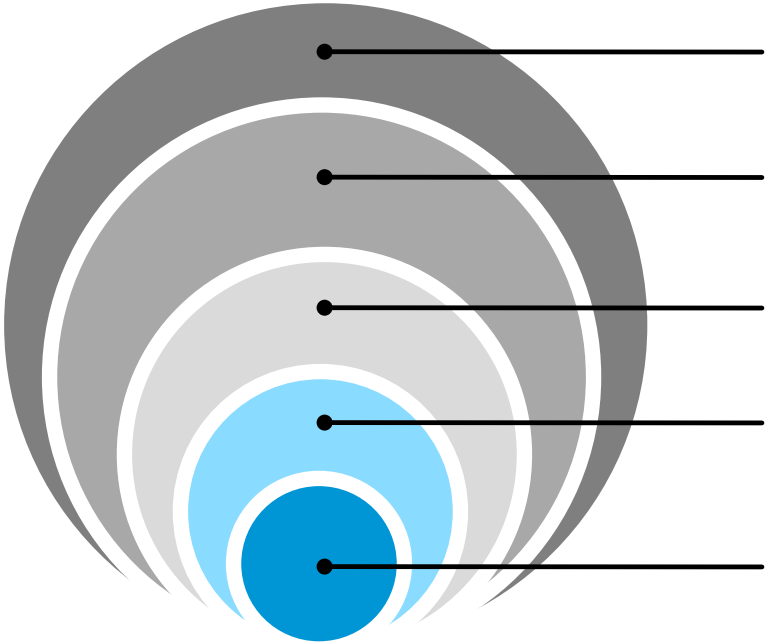
HP DL380z Virtual Workstation

Software ecosystem build-out



Endpoint operating environment
WES 7/8, ThinPro, Window 7/8, Android, IOS

Client software
Citrix Receiver, VMware View Client, MS RDP, RGS Receiver, HP Velocity

Remote protocol
HDX (ICA), PCoIP, RDP, RGS

Broker
XenDesktop, VMware Horizon, MS Conn Broker, LeoStream

Software on VWS
- Hypervisor: XenServer, VMWare ESX, Hyper-V
- Hosted Client OS: Windows 7-8, Linux
- Value Add: HP Velocity

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HP DL380z Gen8 Virtual Workstation

At a glance

Chassis depth	27.5” [SFF only]
Power supply	94% Common slot PS, one or two 1200W only
GPU support	K4000 (up to 3), up to two of the following: K5000, K6000, GRID K2
Processor	Up to 2 E5-2600v2 up to 115W
Memory	24x DDR3 up to 1866 MHz – 16 GB modules for up to 384 GB
PCIe 3.0 slots	Up to 4 PCIe 3.0 slots using the available riser cages, 2 on CPU 1 (x16, x8) and 2 on CPU 2 (x16, x16)
Networking	FlexibleLOM
Storage controller	6G SAS/ P420i
SAS/SATA drives	SFF (SAS/ SATA): up to 8SFF
Management	iLO (Enterprise)
USB	(7) USB (USB 2.0 – 2 front, 1 internal, 4 rear)
Optical drive	Optional
Warranty	3-3-3

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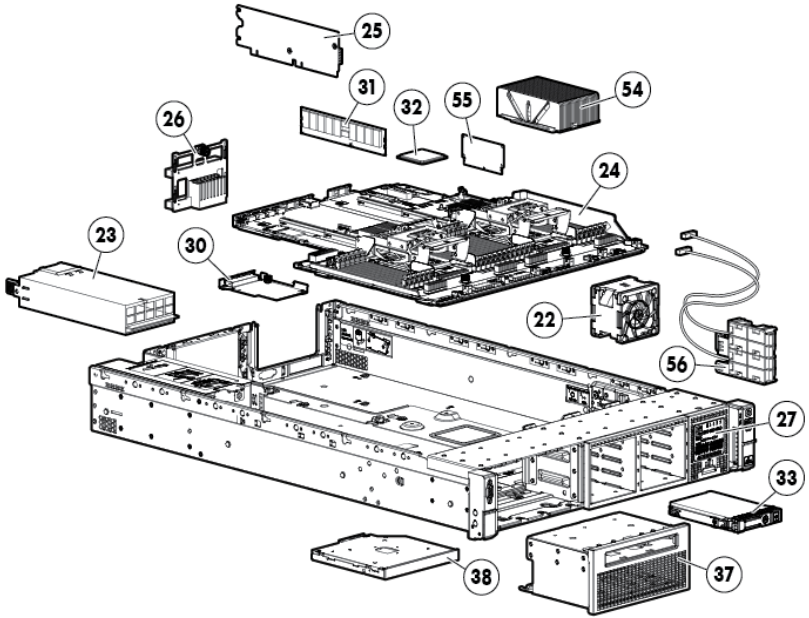
HP DL380z Gen8 Virtual Workstation

Quick peek



Overall expanded view:

22. Chassis fan (up to 6)
23. 1200W power supply (one shown)
24. Main motherboard PCA
25. Riser card backplane interconnect (not shown with riser card assembly)
26. Power supply backplane interconnect
27. System Insight Display
30. Flex LOM
31. Memory RDIMM module (up to 24)
32.
33. SFF (2.5”) Storage device
37. Optical bay assembly
38. Slim line optical
55. Storage array cache module
56.

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NVIDIA GRID™ K2 Card

Features	K2
Number of GPUs	2
Total CUDA Cores	3072
Total Memory	8 GB
Comparable to	2x K5000s

Card	vGPU profile	Memory	Displays	Resolution	Max users	Quadro GPU comparison
K2	K260Q	2 G	4	2560x1600	4	~K2000
K2	K240Q	1 G	2	2560x1600	8	~K600

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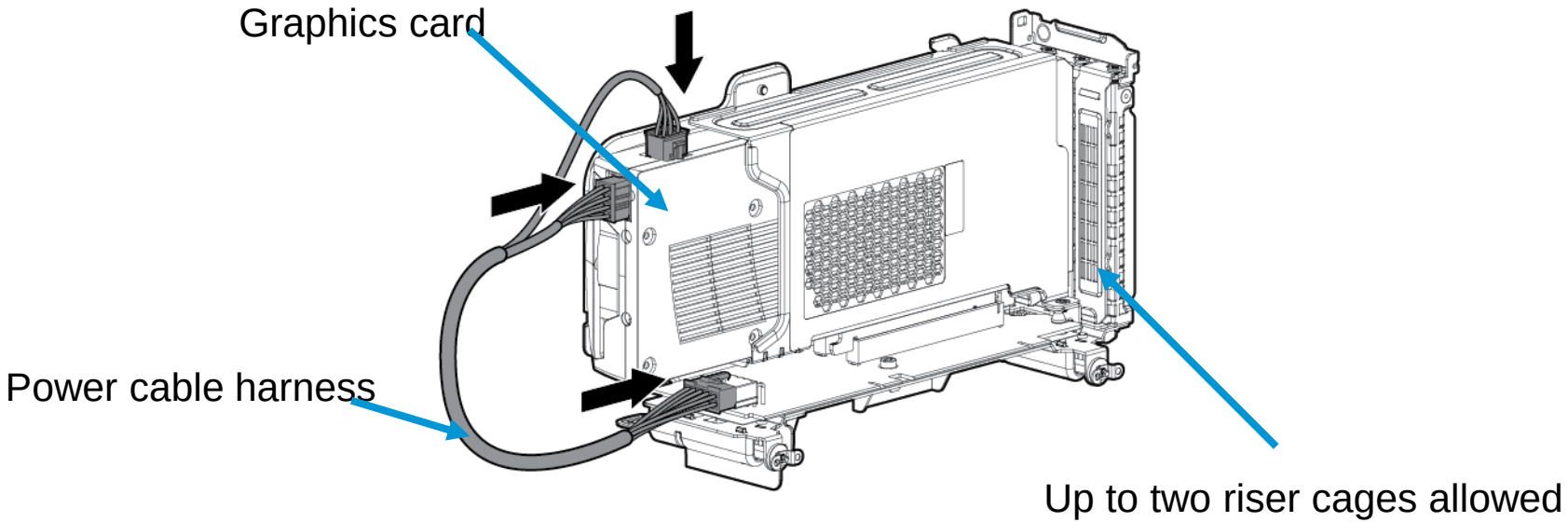
HP DL380z Gen8 Virtual Workstation

Grid and Quadro graphics Riser cage detail



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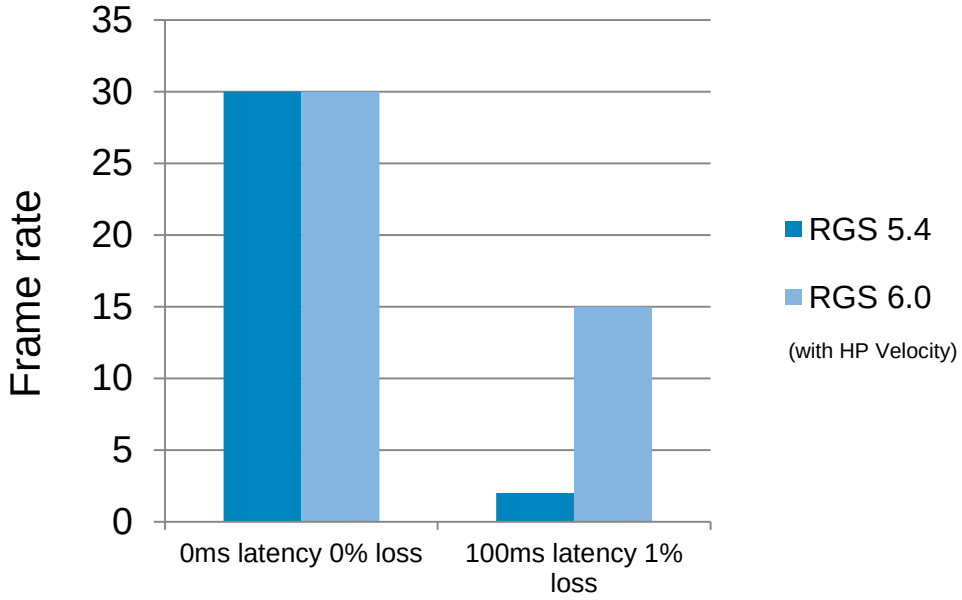
HP Velocity

Optimizing network performance over poor networks between HP VWS and HP clients

Making a workstation experience possible in more places

- Proven technology for mitigation of packet loss and latency issues encountered in IP network environments
- HP Velocity optimizes and extends the performance boundary of HP RGS
- HP Velocity is available integrated with HP RGS or as standalone service



Benchmark setup

- Win7 64 sender/receiver
- 1280x720 @ 30 fps video
- Advanced video compression: OFF
- 100 milliseconds latency and 1% packet loss

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The connected world of HP RGS

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HP RGS 7

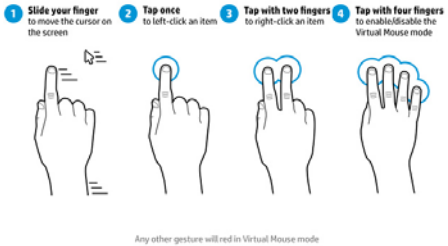
Touch and gestures for Windows 8 tablets

Zoom and Pan

Small Screen? No Problem

- Scale remote desktop image
- Expand to see multi-displays
- Smooth & responsive touch control

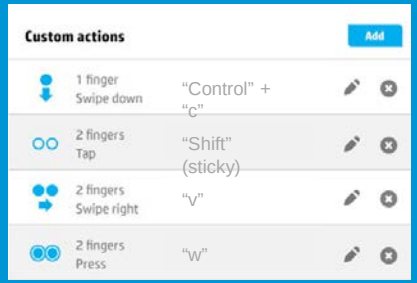
Virtual Mouse


1 Slide your finger to move the cursor on the screen
2 Tap once to left-click an item
3 Tap with two fingers to right-click an item
4 Tap with four fingers to enable/disable the Virtual Mouse mode
Any other gesture will red in Virtual Mouse mode

Precise- touch control

- Onscreen precision mouse pointer
- Single tap left or right click
- Quick onscreen keyboard access

Gesture-Hotkeys



No Keyboard, no problem

- Deep Application Control
- Configurable gestures to control your workstation applications

*Timelines and features are subject to change without notice
*This does not represent or imply a commitment of future capabilities

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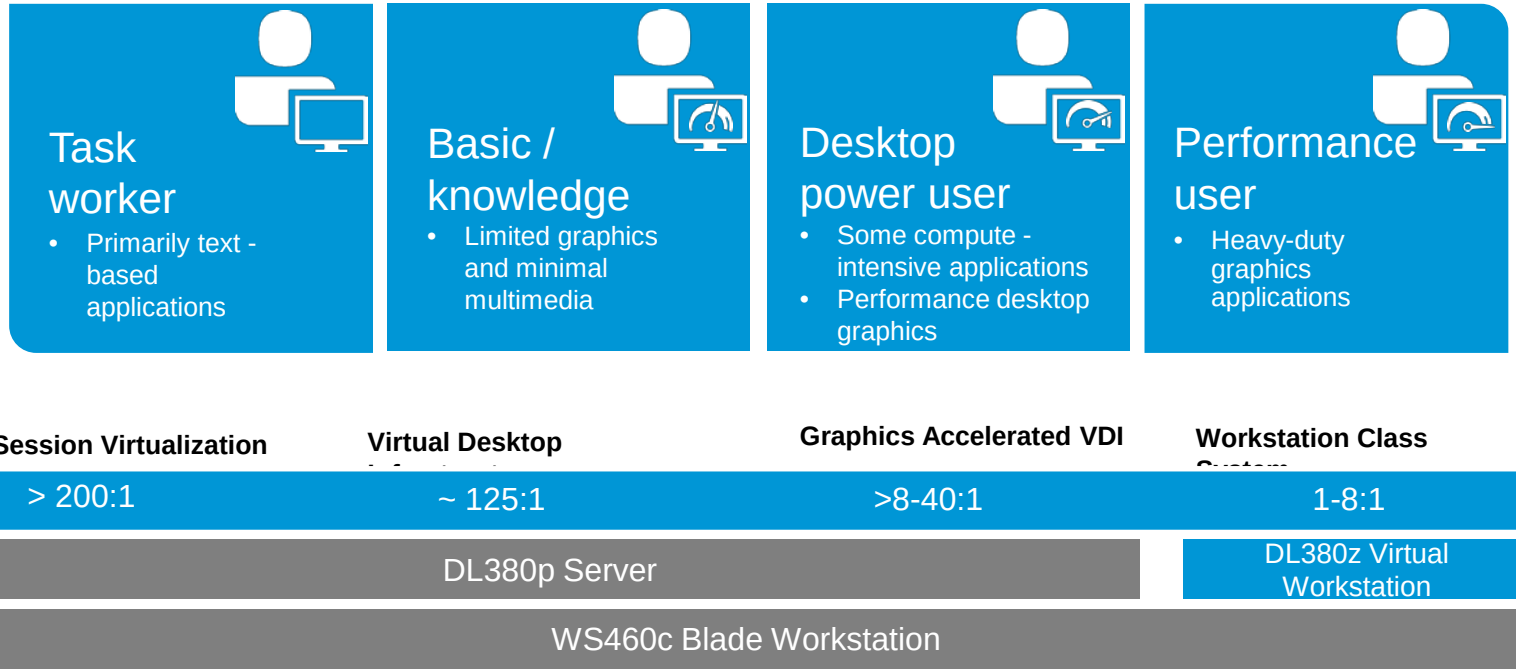
Virtualized PC and workstation user types



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Positioning

	Blade Workstation	ProLiant DL380p	DL380z Virtual Workstation
Base positioning	Workstation, high-density Graphics heavy	Flexible, industry standard server, broad applicability	Workstation, flexible industry standard form-factor graphics heavy
Applications	Workstation ISV applications Desktop virtualization	Multi-user server applications Desktop virtualization, web computationally intensive	Workstation ISV applications
Target markets and use cases	CAD, PLM, DME, AEC, O&G, education, FSI High end office automation	Office automation, call centers Traditional client/server High performance computing (render farms)	CAD, PLM, DME, AEC, O&G, education, FSI
Implementation	Blade and racks	Rack/PDU datacenter	Individual units in existing racks
Number of users	1 - many	> 8 users	1 - 8 users
Core product	ProLiant WS460c Blade Workstation	ProLiant DL380p server	DL380z Virtual Workstation
GPU usage	Data intensive analysis and graphics/visualization	Data intensive analysis	Graphics/visualization

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HP Yenilikleri -

Terimler	Tanımları
HP Smart Socket klavuzu	HP akıllı soket mimarisi ile hiçbir problem yaşamadan işlemci değiştirme olanağı sağlar. Kendine haz mimarisi ile sokert'e zarar verme korkusu yaşamazsınız.
HP SmartMemory	HP'nin güvenilirlik ve uyumluluk testlerinden geçmiş, performans ve verimlilik anlamında en üst seviye ürünlerdir. Yüksek seviye hata denetimi ile de veri koruma konusunda avantajlar sağlar.
HP SmartDrives	HP SmartDrive technolojisi akıllı LED'lerle sizlere diskler ile ilgili detaylı bilgiler verir.
HP SmartCache	HP SmartCache ile P420i, P420, P421, P822 ve P721m. Kartlarını kullanarak, SSD diskleri sıcak datalarınızı barındırmak için kullanabilirsiniz. Böylece verilerinizi SSD disklerle katmanlandırarak üstün performans elde edebilirsiniz
HP FlexibleLOM	HP FlexibleLOM yapı sizlere anakart'a direk bağlantı ile 1G veya 10G ve fabric (Ethernet, FCoE, InfiniBand) desteği sağlar. Üstelik WOL desteği ile.
Flex Fabric (Blade)	Blade sistemlerde kullanılan, bağlantı hızlarını isteklerinize göre değiştirbileceğiniz sanal bağlantı arabirimidir. Tamamen istekleriniz doğrultusunda tüm ihtiyaçlarınız düzenleyebilirsiniz.
512MB FBWC Standard	Flash-backed write cache Disk performansınızı adeta uçurur. Bu kapasiteyi 4GB'a kadar yükseltmek elinizde

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HP Innovations – Glossary cont.

Term	Definition
Intelligent Provisioning	Intelligent Provisioning, replaces the SmartStart media, offers out-of the box deployment. Simply press F10 to get started, no SmartStart CDs required. Includes pre-boot display for early status and setup information that appears three seconds after power-up: guided, profile-driven or scripted approaches, automatic updates for firmware and drivers.
HP Active Health System	HP Active Health maximizes system uptime and enables faster problem analysis by providing 24x7 continuous health monitoring and data logging without impacting performance.
HP Agentless Management	HP Agentless Management provides built-in increased security and stability by monitoring all core hardware health without OS agents, the moment the system is turned on.
HP Smart Update	HP Smart Update reduces deployment time and update complexity by systematically updating server infrastructure in the data center. It manages deployment of firmware, drivers and tools to execute system updates in parallel across the infrastructure. Updates can be scheduled, staged and deployed across hundreds of servers in many different configurations. Includes HP Smart Update Manager (HP SUM), and Service Pack for ProLiant (SPP), and other products.
3D Sea of Sensors	Gereksiz enerji sarfiyatı ve gürültü sebebi fanların otomatik olarak kapatılması, yavaşlatılması için tam kontrol artık sunucunuzun elinde.

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